



**Broadband Infrastructure Application
Submission to RUS (BIP) and NTIA (BTOP)**

Submitted Date: 8/20/2009 4:55:03 PM		Easygrants ID: 1823
Funding Opportunity: Broadband Initiatives Program and Broadband Technology Opportunities Program		Applicant Organization: REW Networks AZ LLC
Task: Submit Application - Infrastructure Programs		Applicant Name: Miss Brandy L Gray

<ul style="list-style-type: none">• Conformity with Statutory Purposes• Cost Sharing/Matching• Reasonableness of Project Budget
The project advances at least one of the statutory purposes for BTOP
Applicant has provided documentation that the project would not have been implemented during the grant period without federal grant assistance.
Applicant has provided a budget that is appropriate to the proposed technical solution and only includes eligible costs.

- **Demonstration the Project Could not be Implemented But For Federal Grant Assistance**
Applicant is providing matching funds of at least 20 percent towards the total eligible project costs?
Yes

7-k. Cost Sharing/Matching Fund Explanation
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C. Executive Summary

Executive Summary of Project for BIP and BTOP:

8. Infrastructure Projects Executive Summary

Executive Summary

Applicant, (hereafter "Networks AZ"), proposes to construct and operate a Final Mile wireless broadband network in rural unserved and underserved areas in Yavapai and Navajo counties. Networks AZ proposes to deploy wireless distribution points for its 3.65Ghz WiMax equipment in its funded service area.



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[REDACTED] This [REDACTED] also demonstrates the need to provide Last Mile broadband service in the area [REDACTED] and demonstrates that these areas are largely unserved and/or underserved..

Networks AZ addresses the precise compelling need for last mile service in the geographical areas formally identified when Arizona asked for bids to connect its rural counties. Networks AZ will provide broadband service at up to ten megabits as desired by customers [REDACTED]

[REDACTED] to minimize the cost of bringing broadband to Networks AZ's prospective funded service areas and also to maximize the coverage areas [REDACTED]. Networks AZ' Last Mile system is needed because many of the households in Network Az's proposed funded service area are currently excluded from participation in the information networks now so important to almost all aspects of modern American life -- business, education, health, consumer choice, commerce and entertainment. Broadband access is also critical to America's competitiveness in the world. It is also a matter of life and death as Emergency Telemedicine becomes so important for those ill or injured who face long transport times to healthcare facilities in rural areas.

Networks AZ's experienced management team has deep, wide and long experience in wireless communication including the construction and operation of systems larger and more complicated than the proposed system. While Networks AZ is a start up company that plans to expand and grow utilizing the experience and talents of its experienced management team, its management team has experience in start up wireless communications going back to the early 1980's.

Deployment of Networks AZ's network will enable participation in modern American life for Arizonans now excluded by the absence of broadband where they live and work. Enabling this denied opportunity fulfills a primary purpose of the Stimulus legislation.



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The proposed funded service area is in rural Yavapai and Navajo counties in central Arizona, more specifically the Verde Valley and the nearby Pinetop-Lakeside area. Networks AZ's corridor of towers serves these communities and nearby unincorporated areas with scattered population.

[REDACTED]
[REDACTED]
[REDACTED] Providing broadband access to those lacking it will improve the ability of the household residents to participate in modern American life and these businesses to compete in the modern world.

Networks AZ has met with various community and governmental groups in the service area and letters of support are attached.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] The daily need of a functioning Emergency Telemedicine network for these who become ill or injured in rural areas is indisputably a life or death matter because of the long transport times from the patient's location to the nearest qualified medical facility. This travel problem is often complicated in Networks AZ' funded service area by the terrain and inclement weather.

As a small company Networks AZ will comply with all legal requirements but expects few issues to arise in what is now a grouping of communities and outlying areas now unserved or underserved.

Networks AZ will deploy a wireless broadband system using [REDACTED] an integrated system maximizing the ability for consumers to use legacy WiFi devices within the home or a business place. It uses a recognized industry standard wireless technology that can reliably provide the promised broadband service. [REDACTED]
[REDACTED]

Moreover, the conversion to

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mobile WiMax technology in the future can be accomplished efficiently and cost effectively based on the planned wireless infrastructure in Networks AZ's Project.

Networks AZ's management team has experience in creating and implementing wireless companies going back to cell phone deployments in the 1980s. Its design and engineering team has experience in deploying broadband infrastructure including difficult installations in places like India. Its management team has managed wireless companies with many times the users proposed in this Application. Networks AZ is fully qualified to deploy and manage the system it has designed and proposes.

The projected cost is [REDACTED]. This is far less than the cost of a fiber installation to cover the same funded service area and the Project's wireless network can be deployed much more quickly. It does not require the same kind of physical location of wired networks and it can also be deployed without the need for the time consuming process of obtaining easements from many different persons and agencies. It also will not experience the potentially serious delays that a more physically intrusive fiber installation would require in doing the environmental impact studies for the installation of fiber across such wide areas. This makes the proposed Networks AZ deployment far more "shovel ready" than any comparable fiber deployment.

[REDACTED] Networks AZ's project will also be the most cost effective Last Mile deployment for rural Arizona making it far more sustainable. Wireless technology also offers what will likely be an easy and relatively inexpensive conversion to mobile broadband service in a few years as the technology evolves. This would involve using more than ninety percent of the infrastructure and only changing the radio equipment in towers and providing mobile CPE while retaining all existing CPE. A fiber deployment will not allow such mobility without later duplicating most of our project's proposed infrastructure.

Networks AZ projects approximately [REDACTED] subscribers by the end of year [REDACTED] and a business employing [REDACTED] people in jobs newly created. Networks AZ estimates that [REDACTED] construction related jobs will be saved during the installation period.

Description of BTOP Project Purpose (BTOP Applicants Only Next Three Questions)